

# RADIUS 5

## RECORD PLAYER

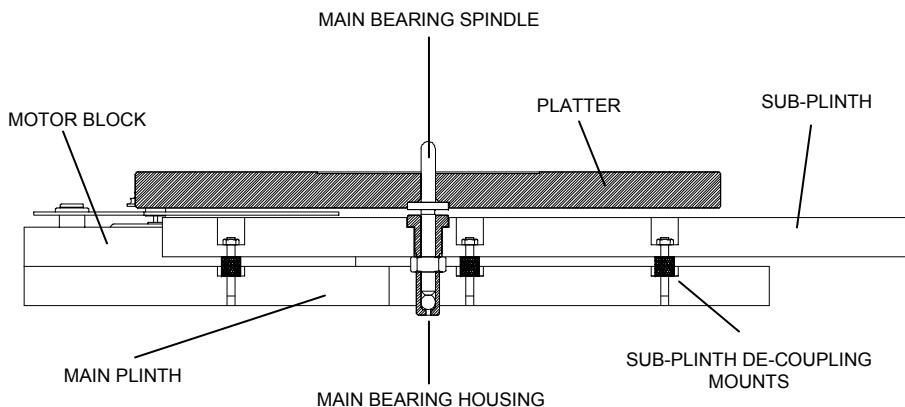
Congratulations on your purchase of the Roksan Radius5 record player. This record Player is designed and manufactured to the highest specification and rigorously tested to reward you many years of listening pleasure.

Your Radius5 record player is at the heart of your vinyl replay system. Its correct installation, set-up and operation will have a profound influence on the sonic performance of the entire hi-fi installation.

Please read the contents of this manual thoroughly. It will help you to understand your record playing equipment better and enhance your listening pleasure.

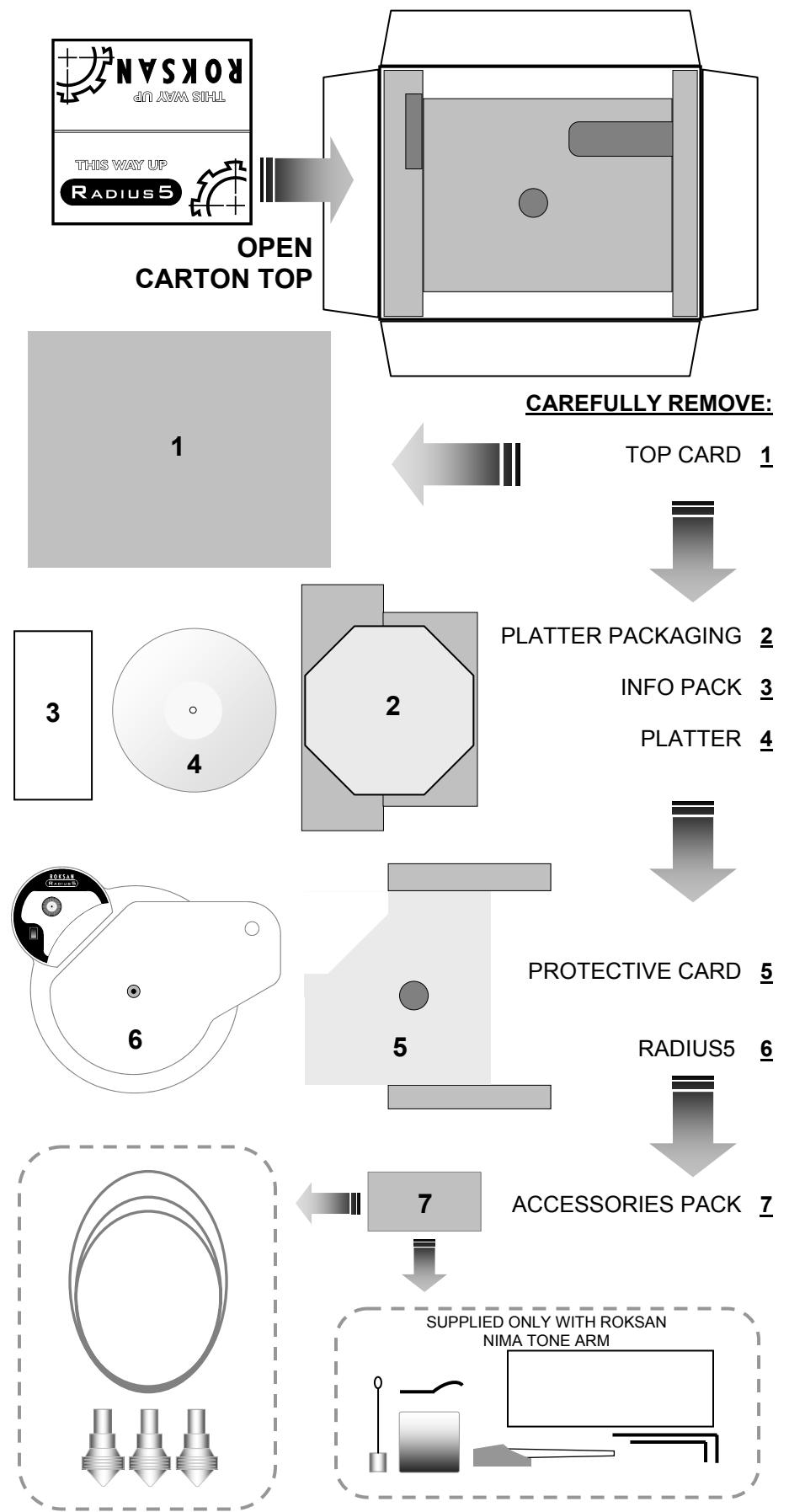
### BRIEF

The design of the Radius5 record player has many special features not found in other similar turntables. Drive mechanism utilises a custom synchronous motor fitted with a precision-machined solid aluminium alloy pulley. The main bearing housing and spindle are custom designed and machined from solid brass and solid stainless steel to extremely high precision to ensure ultra smooth running and longevity. The platter is machined from solid Acrylic to very high accuracy and ensures speed stability. Main bearing, Platter and Tone Arm are mounted on the sub-plinth and three point de-coupled from the main-plinth to maximise performance and minimise acoustic break through. The motor assembly is mounted on the motor block and then onto the main-plinth and further de-coupled to avoid motor noise break through. Tone Arm cable is rigidly fixed to the main-plinth that acts as a mechanical ground and minimises interference with the sub-plinth. The Radius5 has three custom made adjustable spike feet to allow levelling and provide optimum coupling to the surface that it sits on. Partnered with the NIMA tone arm, the Radius5 has unparalleled performance in its class.



### PACKAGING

Your Radius5 is carefully and thoughtfully packed so that the packaging can be re-used whenever you need to transport it. Please store all the packaging material for future use.



### ASSEMBLY

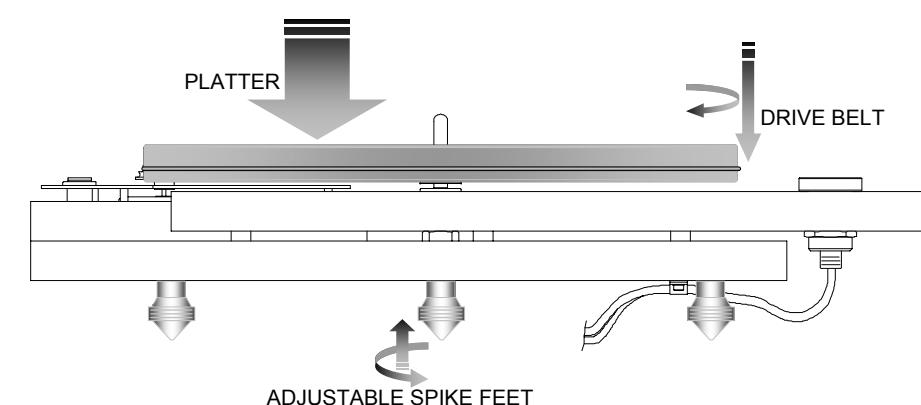
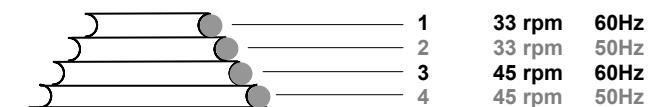
Remove the Radius5 from its protective bag and check that the voltage label indicates the correct voltage range for your mains supply. If the Radius5 is fitted with the NIMA tone arm, be extra careful not to damage the arm while you are assembling the record player.

(If in any doubt, remove the tone arm. Refer to the NIMA user manual)

Remove the Adjustable Spike Feet (x3) from the accessories bag and carefully fit them to the bottom plinth. Initially screw them all the way as the surface you intend to place the Radius5 on would normally be level. These could be used later to level the Radius5 in its final position if required.

Remove the Platter, with the record label recess upper most, carefully locate its central hole over the main bearing spindle and gently lower it until the two fit/mate together.

Remove the Drive Belt and gently place it around the platter and onto the pulley. Note position 1 & 3 would provide 33 & 45 rpm for mains supplies running at 60Hz (cycles) and position 2 & 4 provide 33 & 45 rpm for mains supplies running at 50Hz (cycles) see figure below.



#### NOTE:

The Main Bearing is already charged with correct type oil & grease and it is important that the **Main Bearing Spindle is not removed from the bearing housing**. This will disperse some of the oil and necessitate charging the Main Bearing with oil again. The Main Bearing will require cleaning with a cotton bud and recharging, with Roksan supplied bearing oil, every two years. Consult your Roksan appointed retailer/distributor or contact Roksan Audio for any assistance.

Finally, for assembling and fitting of your tone arm and cartridge, refer to the manufacturer's user manual.

#### IMPORTANT:

The Radius5 is mains operated. DO NOT try to gain access to the inside of this unit. Refer all servicing to your Roksan appointed retailer/distributor or contact Roksan Audio.

## INSTALLATION

Place the Radius5 on a rigid level surface (*take care to avoid damaging the surface by the spike feet*). The arm cable should be securely fixed into the base of the tone arm and connected to the phono input of the amplifier without pulling on to the Radius5. It is important to ensure the phono input is correct with the type of cartridge you are using and that the tone arm cable ground lead is firmly attached to the phono grounding point.

*Note that the cartridge/tone arm should be assembled according to manufacturer's instructions to ensure correct geometry, tracking weight and anti-skate force.*

Connect the power lead to the correct voltage mains supply and switch the Radius5 on. The Radius5 platter will start to rotate at the speed corresponding to the position of the drive belt on the pulley and the mains supply frequency. In most countries, 220-240Vac supplies are at 50Hz and 110-120Vac mains are at 60Hz. If you are unsure of your mains supply frequency, you can check both pulley positions and verify the correct selection by listening to a piece of music.

Please note that the motor body is de-coupled and it will oscillate back and forth while it synchronises with the mains frequency and gets to the correct speed. This method of mounting and isolating the motor ensures minimal motor noise break through and stabilises the continuous running speed.

### NOTE:

Always remove the platter before transporting the Radius5. The drive belt is best fitted by carefully placing it around the platter, diagonally opposite the pulley, then gently stretching and placing it in the pulley groove.

## OPERATION

Your Radius5 record player is now ready for use. With the drive belt in the desired pulley groove switch the Radius5 on. Check the amplifier volume is set to low and that the correct input for phono is selected. Gently increase the volume and check for any unwanted hum/noise. Check the hum level with the amplifier at full volume. There should be no hum or very low level of hum audible (Remember to lower the volume afterwards). If so, then carefully place the record you wish to play onto the platter, gently lower the arm/cartridge onto the track you want to listen to and enjoy the music from your Radius5.

To select 45 or 33 rpm, switch the motor off and place the belt around the corresponding pulley groove and start the motor again. The motor will at first rock back and forth a few times to catch up with speed and synchronise. Once the motor has settled down, place the record on the platter and play your desired track.

## TROUBLESHOOTING

If you suspect that your Radius5 record player is not working correctly, first check all the connections. Pay particular attention to cartridge tag connections, (channel & phase), tone arm cable connections (phono RCAs & ground) and mains lead connection. Below are some commonly encountered problems with suggestions for possible cure. The list is not exhaustive: If you have any unresolved problems, please consult your ROKSAN appointed retailer, distributor or Roksan Audio.

SYMPTOM	LIKELY CAUSE	SUGGESTED REMEDY
No power	AC Mains lead not inserted properly	Ensure AC Mains lead is fully inserted
	Unit not switched	Switch unit on
Wrong speed	Incorrect pulley groove selected	Check your mains supply frequency and place drive belt in the correct pulley groove (see figure in assembly section above)
	Mis-tracking and poor sound quality	Check arm/cartridge set-up (refer to manufacturer's user manual)
Hum from speakers	Tone arm cable ground not connected	Connect tone arm cable ground lead to phono amp ground terminal
	Incorrect Grounding	Check Mains polarity and grounding on all connected equipment

## GUARANTEE

There are no user-serviceable parts inside your Roksan Radius5 Record Player. If a fault should develop, refer any servicing to your appointed ROKSAN dealer, distributor or ROKSAN approved service agent.

Your Roksan Radius5 Record Player is guaranteed against any defect in materials and workmanship for a period of **two years** from the date of purchase.

This guarantee only becomes effective if the warranty card is validated (by the ROKSAN retailer from whom the equipment was purchased) and returned to ROKSAN within **28 days** of purchase.

This guarantee excludes:

1. Damage caused due to accident, misuse, neglect and incorrect installation, adjustment or repair.
2. Liability for damage or loss during transit from the retailer or purchaser to ROKSAN or its authorised distributor for the purposes of repair or inspection.

Carriage costs to ROKSAN shall be borne by the consignor.

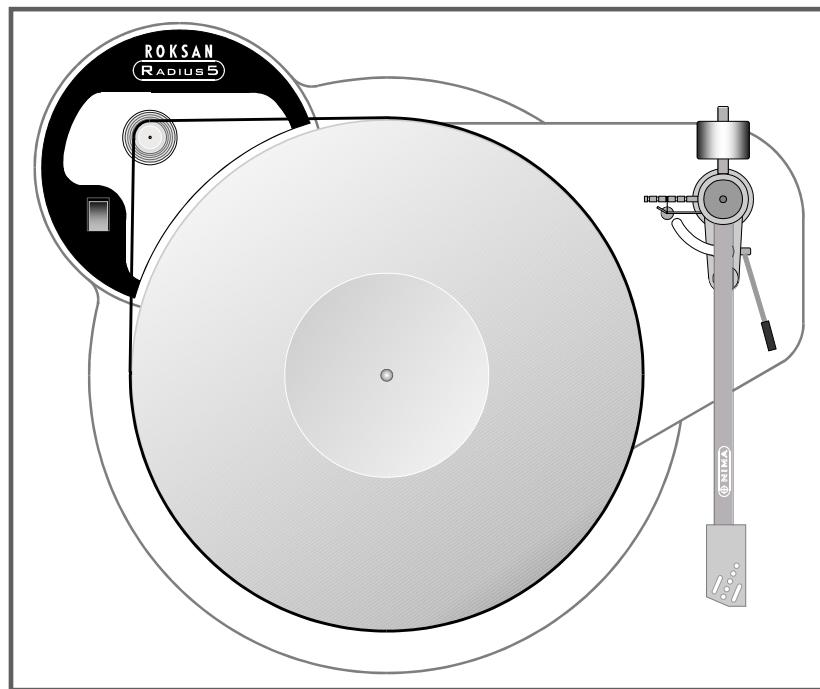
All claims under this guarantee must be made through an authorised ROKSAN retailer. If equipment returned for repair to ROKSAN is found on inspection to comply with the product specification ROKSAN reserves the right to make a charge for examination and return carriage.

## SPECIFICATIONS

Main Bearing Spindle	Precision machined stainless steel
Main Bearing Housing	Precision machined solid brass
Main Bearing Ball	Precision case hardened steel
Pulley	Precision machined Aluminium alloy
Platter	Precision machined Acrylic
Motor	Custom made 24 pole synchronous
Speed	33 & 45 rpm
Power	110 or 220 Vac – 50/60 Hz
Rumble	<75dB
Wow & Flutter	<0.04%
Dimension	400 x 350 x 150mm (W x D x H)
Weight	7Kg

# ROK SAN

## RADIUS 5 RECORD PLAYER



## USER MANUAL

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